

Title (en)

Operating switch for a microwave oven and control circuit therefor

Title (de)

Bedienungsschalter eines Mikrowellenofens und Steuerschaltung hierzu

Title (fr)

Interrupteur de commande pour un four à micro-ondes et circuit de commande à cet effet

Publication

EP 0661908 B1 19990714 (EN)

Application

EP 94309913 A 19941230

Priority

- KR 930031719 U 19931231
- KR 19940032956 A 19941206

Abstract (en)

[origin: EP0661908A2] An operating switch (10) for an oven, comprises first (66) and second (62) switching means individually rotatable about a common axis (X-X') by means of first and second knobs (67,63) for selecting a cooking time and a menu option respectively, the first switching means including a shaft (36,38) movable longitudinally of said axis by pressing the knob (67) for activating a push switch (14) that starts the cooking operation. The first and second switching means include rotary digital encoders that produce digital signals according to the rotation angle of the knobs. The signals, together with signals from the push switch, are input to a microprocessor (120) that controls the cooking operation according to the selected menu and cooking time. <IMAGE>

IPC 1-7

H05B 6/68

IPC 8 full level

F24C 7/02 (2006.01); **F24C 7/08** (2006.01); **G01D 5/25** (2006.01); **H01H 19/00** (2006.01); **H01H 19/58** (2006.01); **H05B 6/64** (2006.01); **H05B 6/68** (2006.01); **H01H 25/06** (2006.01)

CPC (source: EP KR US)

F24C 7/08 (2013.01 - KR); **G01D 5/25** (2013.01 - EP US); **H01H 19/585** (2013.01 - EP US); **H05B 6/6435** (2013.01 - EP US); **H01H 25/06** (2013.01 - EP US); **H01H 2019/143** (2013.01 - EP US)

Citation (examination)

- DE 4117031 A1 19911128 - ALPS ELECTRIC CO LTD [JP]
- DE 4034609 A1 19920507 - ZIMMERMANN SILVIA [DE], et al

Cited by

US2013204406A1; EP1881514A1; FR2904141A1; US7637181B2; FR2859783A1; EP1517118A1; EP1770733A1; EP1753001A1; CN102741772A; GB2390416A; EP1032247A3; DE10126766B4; US6813911B2; US6856841B2; US6727443B2; WO2005112059A1; WO2014102384A1; WO03014841A3; WO2011059860A1; WO03014840A3; WO03014843A3; US8217742B2; EP1931918A2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0661908 A2 19950705; **EP 0661908 A3 19950823**; **EP 0661908 B1 19990714**; BR 9405305 A 19950919; CA 2139264 A1 19950701; CA 2139264 C 19990330; DE 69419490 D1 19990819; JP 2648461 B2 19970827; JP H07282969 A 19951027; JP H09196382 A 19970729; KR 0175848 B1 19990320; KR 950019459 A 19950724; US 5607611 A 19970304

DOCDB simple family (application)

EP 94309913 A 19941230; BR 9405305 A 19941229; CA 2139264 A 19941229; DE 69419490 T 19941230; JP 32442296 A 19961204; JP 32905894 A 19941228; KR 19940032956 A 19941206; US 36646794 A 19941230